

# 6W4GT

## Half-Wave Vacuum Rectifier

For Television Damper Service

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

|                              |     |       |
|------------------------------|-----|-------|
| Voltage (AC or DC) . . . . . | 6.3 | volts |
| Current . . . . .            | 1.2 | amp   |

Direct Interelectrode Capacitances (Approx.):<sup>a</sup>

|                                       |    |         |
|---------------------------------------|----|---------|
| Plate to cathode and heater . . . . . | 6  | $\mu$ f |
| Cathode to plate and heater . . . . . | 13 | $\mu$ f |
| Heater to cathode . . . . .           | 7  | $\mu$ f |

#### Mechanical:

|                                  |                     |
|----------------------------------|---------------------|
| Operating Position . . . . .     | Any                 |
| Maximum Overall Length . . . . . | 3-5/16"             |
| Maximum Seated Length . . . . .  | 2-3/4"              |
| Maximum Diameter . . . . .       | 1-9/32"             |
| Dimensional Outline . . . . .    | See General Section |
| Bulb . . . . .                   | T9                  |

Bases (Alternates):

Intermediate-Shell Octal:

6 - Pin, Arrangement 1 (JEDEC Group 1, No. B6-8)

5 - Pin, Arrangement 2 (JEDEC Group 1, No. B5-82)

Short Intermediate-Shell Octal with External Barriers:

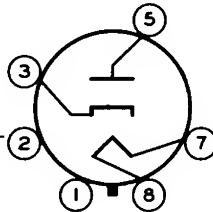
6 - Pin, Arrangement 1 (JEDEC Group 1, No. B6-60)

5 - Pin, Arrangement 2 (JEDEC Group 1, No. B5-85)

Basing Designation for BOTTOM VIEW . . . . . 4CG

Pin 1<sup>b</sup> - Same as  
Pin 2

Pin 2 - Internal  
Connection—  
Do Not Use<sup>c</sup>



Pin 3 - Cathode  
Pin 5 - Plate  
Pin 7 - Heater  
Pin 8 - Heater

### DAMPER SERVICE

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system<sup>d</sup>

PEAK INVERSE PLATE VOLTAGE

(Absolute maximum)<sup>e</sup> . . . . . 3850<sup>f</sup> max. volts

PEAK PLATE CURRENT . . . . . 750 max. ma

DC PLATE CURRENT . . . . . 125 max. ma

PLATE DISSIPATION . . . . . 3.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 2300<sup>g</sup> max. volts

Heater positive with respect to cathode. 300<sup>h</sup> max. volts

← Indicates a change.



RADIO CORPORATION OF AMERICA  
Electron Tube Division  
Harrison, N. J.

DATA  
I-62

# 6W4GT

---

## Characteristics, Instantaneous Value:

Tube Voltage Drop for plate ma. = 250. . . . 21 volts —

<sup>a</sup> Without external shield.

<sup>b</sup> On the 5-pin bases, pin 1 as well as pins 4 and 6 is omitted.

<sup>c</sup> Socket terminals 1, 2, 4 and 6 should not be used as tie points.

<sup>d</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

<sup>e</sup> This rating is applicable when the duty cycle of the voltage pulse does not exceed 15 percent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 percent of one horizontal scanning cycle is 10 microseconds. —

<sup>f</sup> Under no circumstances should this absolute-maximum value be exceeded.

<sup>g</sup> The dc component (Absolute maximum) must not exceed 500 volts.

<sup>h</sup> The dc component must not exceed 100 volts. —

